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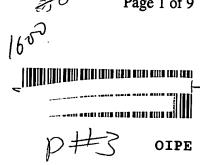
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430



RAW SEQUENCE LISTING

1 <110> APPLICANT: Abbott Laboratories

PATENT APPLICATION: US/10/082,659

DATE: 03/13/2002 TIME: 11:05:58

```
Cohen, Maurice
      3
              Colpitts, Tracey L.
                                                       ENTERED
              Friedman, Paula N.
              Granados, Edward N.
              Klass, Michael R.
              Russell, John C.
              Stroupe, Stephen D.
      9 <120> TITLE OF INVENTION: REAGENTS AND METHODS USEFUL FOR
              DETECTING DISEASES OF THE PROSTATE
     11 <130> FILE REFERENCE: 6171.US.P1
     13 <140> CURRENT APPLICATION NUMBER: 10/082,659
     14 <141> CURRENT FILING DATE: 2002-02-25
     16 <150> PRIOR APPLICATION NUMBER: 09/566,876
     17 <151> PRIOR FILING DATE: 2000-05-08
     18 <160> NUMBER OF SEQ ID NOS: 21
     19 <170> SOFTWARE: FastSEQ for Windows Version 3.0
                                                                TECH CENTER 1600/2900
     21 <210> SEQ ID NO: 1
     22 <211> LENGTH: 187
     23 <212> TYPE: DNA
     24 <213> ORGANISM: Homo sapiens
     25 <220> FEATURE:
     26 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
     27
              position 2
     28 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
     29
              position 96
     30 <400> SEQUENCE: 1
W--> 31
              tnttttttgt ttgctctgaa tttattgcga gtgaaaaaca gagaaaatcc tcaagtttaa
                                                                                       60
W--> 32
              gtttctgata gcagagtgtg ggagttagag catggngagt ccagaggttc cagaccccca
                                                                                      120
     33
              aaggteteta ecagggeeat eteegttagt ggeggtggea geeeetettg tggeettttt
                                                                                      180
              cctctct
                                                                                      187
     36 <210> SEQ ID NO: 2
    37 <211> LENGTH: 250
     38 <212> TYPE: DNA
    39 <213> ORGANISM: Homo sapiens
    40 <400> SEQUENCE: 2
    41
              gtttgctctg aatttattgc gagtgaaaaa cagagaaaat cctcaagttt aagtttctga
                                                                                      60
    42
              tagcagagtg tgggagttag agcatgggga gtccagaggt tccagacccc caaaggtctc
                                                                                      120
    43
              taccagggcc atctccgtta gtggcggtgg cagcccctct tgtggccttt ttcctctctc
                                                                                     180
    44
              caaggggtca ccccgcacca tgccgctccc cctcatctat cttgccccct ccccacaggc
                                                                                     240
    45
              ccatctqcqc
                                                                                     250
    47 <210> SEQ ID NO: 3
    48 <211> LENGTH: 224
```

RAW.SEQUENCE LISTING DATE: 03/13/2002 PATENT APPLICATION: US/10/082,659 TIME: 11:05:58

```
49 <212> TYPE: DNA
     50 <213> ORGANISM: Homo sapiens
     51 <220> FEATURE:
     52 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
              position 71
     54 < 223 > OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
              position 73
     56 < 223 > OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
              position 76
     57
     58 < 223 > OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
              position 81
     59
     60 < 223 > OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
              position 93
     61
     62 <223> OTHER INFORMATION: n = a or q or c or t/u, unknown or other at
              position 138
     63
     64 < 223 > OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
     65
              position 187
     66 <223> OTHER INFORMATION: n = a or q or c or t/u, unknown or other at
              positions 191 and 192
     67
     68 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
              position 207
     70 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
     71
              position 212
     72 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
              position 223
     73
     74 <400> SEQUENCE: 3
                                                                                        60
               cgatcgggca agtaaacccc ctccctcgcc gacttcggaa ctggcgagag ttcagcgcag
     75
W--> 76
               atgggcctgt ngngangggg naagatagat ganggggagc ggcatggtgc ggggtgaccc
                                                                                       120
               cttggagaga ggaaaaangc cacaagaggg gctgccaccg ccactaacgg agatggccct
                                                                                       180
W--> 77
                                                                                       224
W--> 78
               ggtaganact nngggggtct ggaactnctg gnctccccat gcnc
     80 <210> SEO ID NO: 4
     81 <211> LENGTH: 312
     82 <212> TYPE: DNA
     83 <213> ORGANISM: Homo sapiens
     84 <220> FEATURE:
     85 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
     86
              position 2
     87 <400> SEQUENCE: 4
               tnttttttgt ttgctctgaa tttattgcga gtgaaaaaca gagaaaatcc tcaagtttaa
W--> 88
                                                                                        60
     89
               gtttctgata gcagagtgtg ggagttagag catggggagt ccagaggttc cagaccccca
                                                                                       120
     90
               aaggteteta eeagggeeat eteegttagt ggeggtggea geeeetettg tggeettttt
                                                                                       180
     91
               cctctctcca aggggtcacc ccgcaccatg ccgctccccc tcatctatct tgccccctcc
                                                                                       240
               ccacaggece atetgegetg aactetegee agtteegaag teggegaggg agggggttta
                                                                                       300
     92
                                                                                       312
     93
               cttgcccgat cg
     95 <210> SEQ ID NO: 5
     96 <211> LENGTH: 68
     97 <212> TYPE: DNA
     98 <213> ORGANISM: Homo sapiens
     99 <400> SEQUENCE: 5
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RAW.SEQUENCE LISTING DATE: 03/13/2002 PATENT APPLICATION: US/10/082,659 TIME: 11:05:58

```
100
           agctcggaat tccgagcttg gatcctctag agcggccgcc gactagtgag ctcgtcgacc
                                                                                     60
101
           cgggaatt
                                                                                     68
103 <210> SEQ ID NO: 6
104 <211> LENGTH: 68
105 <212> TYPE: DNA
106 <213> ORGANISM: Homo sapiens
107 <400> SEQUENCE: 6
108
           aattaattcc cgggtcgacg agctcactag tcggcggccg ctctagagga tccaagctcg
                                                                                     60
109
           gaattccg
                                                                                     68
111 <210> SEQ ID NO: 7
112 <211> LENGTH: 24
113 <212> TYPE: DNA
114 <213> ORGANISM: Homo sapiens
115 <400> SEQUENCE: 7
           agcggataac aatttcacac agga
                                                                                     24
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 18
120 <212> TYPE: DNA
121 <213> ORGANISM: Homo sapiens
122 <400> SEQUENCE: 8
           tgtaaaacga cggccagt
                                                                                     18
125 <210> SEQ ID NO: 9
126 <211> LENGTH: 73
127 <212> TYPE: PRT
128 <213> ORGANISM: Homo sapiens
129 <400> SEQUENCE: 9
130
           Met Gly Ser Pro Glu Val Pro Asp Pro Gln Arg Ser Leu Pro Gly Pro
131
132
           Ser Pro Leu Val Ala Val Ala Ala Pro Leu Val Ala Phe Phe Leu Ser
133
                                            25
134
           Pro Arg Gly His Pro Ala Pro Cys Arg Ser Pro Ser Ser Ile Leu Pro
135
                                        40
136
           Pro Pro His Arg Pro Ile Cys Ala Glu Leu Ser Pro Val Pro Lys Ser
137
                                    55
                                                        60
138
           Ala Arg Glu Gly Val Tyr Leu Pro Asp
139
141 <210> SEQ ID NO: 10
142 <211> LENGTH: 24
143 <212> TYPE: PRT
144 <213> ORGANISM: Homo sapiens
145 <400> SEQUENCE: 10
146
           Met Gly Ser Pro Glu Val Pro Asp Pro Gln Arg Ser Leu Pro Gly Pro
147
                                                10
148
           Ser Pro Leu Val Ala Val Ala Ala
149
                       20
151 <210> SEQ ID NO: 11
152 <211> LENGTH: 31
153 <212> TYPE: PRT
154 <213> ORGANISM: Homo sapiens
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RAW-SEQUENCE LISTING DATE: 03/13/2002 PATENT APPLICATION: US/10/082,659 TIME: 11:05:58

```
155 <400> SEQUENCE: 11
           Leu Val Ala Phe Phe Leu Ser Pro Arg Gly His Pro Ala Pro Cys Arg
157
                           5
           Ser Pro Ser Ser Ile Leu Pro Pro Pro His Arg Pro Ile Cys Ala
158
159
                       20
                                            25
161 <210> SEQ ID NO: 12
162 <211> LENGTH: 21
163 <212> TYPE: PRT
164 <213> ORGANISM: Homo sapiens
165 <400> SEQUENCE: 12
           Ser Pro Arg Gly His Pro Ala Pro Cys Arg Ser Pro Ser Ser Ile Leu
167
            1
                            5
                                                10
168
           Pro Pro Pro His Arg
169
171 <210> SEQ ID NO: 13
172 <211> LENGTH: 29
173 <212> TYPE: PRT
174 <213> ORGANISM: Homo sapiens
175 <400> SEQUENCE: 13
           Ser Ile Leu Pro Pro Pro His Arg Pro Ile Cys Ala Glu Leu Ser Pro
177
           Val Pro Lys Ser Ala Arg Glu Gly Val Tyr Leu Pro Asp
179
181 <210> SEQ ID NO: 14
182 <211> LENGTH: 13
183 <212> TYPE: PRT
184 <213> ORGANISM: Homo sapiens
185 <400> SEQUENCE: 14
           Val Pro Lys Ser Ala Arg Glu Gly Val Tyr Leu Pro Asp
187
189 <210> SEQ ID NO: 15
190 <211> LENGTH: 8
191 <212> TYPE: PRT
192 <213> ORGANISM: Homo sapiens
193 <400> SEQUENCE: 15
           Asp Tyr Lys Asp Asp Asp Lys
195
            1
197 <210> SEQ ID NO: 16
198 <211> LENGTH: 21
199 <212> TYPE: PRT
200 <213> ORGANISM: Homo sapiens
201 <400> SEQUENCE: 16
202
           Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Met His Thr Glu His
203
                                               .10
204
           His His His His His
205
207 <210> SEQ ID NO: 17
208 <211> LENGTH: 246
209 <212> TYPE: DNA
```

DATE: 03/13/2002 RAW . SEQUENCE LISTING TIME: 11:05:58 PATENT APPLICATION: US/10/082,659

Input Set : N:\Crf3\RULE60\10082659.raw Output Set: N:\CRF3\03132002\J082659.raw

			ORGANISM: Homo sapiens	
	211	<400>	SEQUENCE: 17	
	212		tttttgtttg ctctgaattt attgcgagtg aaaaacagag aaaatcctca agtttaagtt	60
	213		tctgatagca gagtgtggga gtagagcatg gggagtccag aggttccaga cccccaaagg	120
	214		tototaccag gggcatotoc gttagtggcg gtggcagccc ctcttgtggc ctttttcctc	180
	215		totocaaggg gtcaccocgc accatgoogc toccoctcat ctatottgcc coctoccac	240
	216		aggcca	246
		Z2105	SEQ ID NO: 18	
			LENGTH: 704	
			TYPE: DNA	
			ORGANISM: Homo sapiens	
			•	
		<400>	SEQUENCE: 18	60
	223		tttttgtttg ctctgaattt attgcgagtg aaaaacagag aaaatcctca agtttaagtt	
	224		totgatagca gagtgtggga gttagagcat ggggagtcca gaggttccag acccccaaag	120
	225		gtototacca gggccatoto ogttagtggo ggtggcagoo cotottgtgg cotttttoot	180
	226		ctctccaagg ggtcaccccg caccatgccg ctcccctca tctatcttgc cccctcccca	240
	227		caggcccatc tgcgctgaac tctcgccagt tccgaagtcg gcgagggagg gggtttactt	300
	228		gcccgatcgt tggtgggttt gagcttatag aggcagagga gtaagaacct gcgatattga	360
	229		aagctaccca catggggctt ccttgaagga ggacgtggaa ggcagaaagt gacctgctct	420
	230		gagoggogca tgtaaccgag gacettaage tggaccacgg ggettggacg atttttaaa	480
	231		teaggaaate gaceteatet teeteeteet egteetette eeetgaacee eeagteegea	540
	232		tgcactcaca ctctttggcc ttttccctca gtcccgggct cctctttggt aaatagattt	600
	233		gtaggtgtct aagtcacgtc ccaccctcac tccttcccag gagaggagac agggctagga	660
	234		teceacega eggeggeea taaacaettg getgeggegg eege	704
		ر د ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱	SEQ ID NO: 19	, 0 1
			LENGTH: 263	
			TYPE: DNA	
			ORGANISM: Homo sapiens	
		<400>	SEQUENCE: 19	CO
	241		gaggaagatg aggtcgattt cctgatttaa aaaatcgtcc aagccccgtg gtccagctta	60
	242		aggteetegg ttaeatgege egeteagage aggteaettt etgeetteea egteeteett	120
	243		caaggaagee ceatgtgggt agettteaat ategeaggtt ettaeteete tgeetetata	180
	244		ageteaaace caceaacgat egggeaagta aaceceetee etegeegaet teggaactgg	240
	245		cgagagttca gcgcagatgg gcc	263
	247	<210>	SEQ ID NO: 20	
	248	<211>	LENGTH: 203	
	249	<212>	TYPE: DNA	
			ORGANISM: Homo sapiens	
			FEATURE:	
			OTHER INFORMATION: $n = a$ or g or c or t/u , unknown or other at	
	253	\ZZJ/	position 16	
		<222×	OTHER INFORMATION: $n = a$ or g or c or t/u , unknown or other at	
		\443 /		
	255	-400-	position 78	
		<400>	SEQUENCE: 20	60
W>			gaggageceg ggaetnaggg aaaaggecaa agagtgtgag tgeatgegga etgggggtte	60
M>			aggggaagag gacgaggngg aggaagatga ggtcgatttc ctgatttaaa aaatcgtcca	120
	259		agccccgtgg tccagcttaa ggtcctcggt tacatgcgcc gctcagagca ggtcactttc	180
	260		tgccttccac gtcctccttc aag	203
	262	<210>	SEQ ID NO: 21	

RAW.SEQUENCE LISTING ERROR SUMMARY DATE: 03/13/2002
PATENT APPLICATION: US/10/082,659
TIME: 11:05:59

Input Set : N:\Crf3\RULE60\10082659.raw
Output Set: N:\CRF3\03132002\J082659.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequenc Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 2,96
Seq#:3; N Pos. 71,73,76,81,93,138,187,191,192,207,212,223
Seq#:4; N Pos. 2
Seq#:20; N Pos. 16,78

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 31,32,33,34
Seq#:2; Line(s) 41,42,43,44,45
Seq#:3; Line(s) 75,76,77,78
Seq#:4; Line(s) 88,89,90,91,92,93
Seq#:5; Line(s) 100,101
Seq#:6; Line(s) 108,109
Seq#:7; Line(s) 116
Seq#:8; Line(s) 123
Seq#:17; Line(s) 212,213,214,215,216
Seq#:18; Line(s) 223,224,225,226,227,228,229,230,231,232,233,234
Seq#:19; Line(s) 241,242,243,244,245
Seq#:20; Line(s) 257,258,259,260
Seq#:21; Line(s) 267,268,269

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/082,659

TIME: 11:05:59

DATE: 03/13/2002

Input Set : N:\Crf3\RULE60\10082659.raw
Output Set: N:\CRF3\03132002\J082659.raw

Use of n's or Xaa's(NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:1; N Pos. 2,96

 $Seq\#:3;\ N\ Pos.\ 71,73,76,81,93,138,187,191,192,207,212,223$

Seq#:4; N Pos. 2

Seq#:20; N Pos. 16,78

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/082,659

DATE: 03/13/2002 TIME: 11:05:59

```
L:31 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:31 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:31 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:32 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:32 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:32 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60
L:76 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:76 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:60
L:77 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:77 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:120
L:78 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:78 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:180
L:88\ M:258\ W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:88 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:257 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:257 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:258 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:258 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:60
```